

UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application
Naoto Yamano et al.

Examiner: Unassigned

Group Art Unit: 2856

Serial Number: 10/644,821

Attorney Docket: YAMA3008/JEK

Filed: August 21, 2003

For: **SAMPLING TUBE-TYPE SMOKE DETECTOR**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to Rule 37 C.F.R. §§ 1.51(b), 1.56, 1.97 and 1.98, this Information Disclosure Statement is submitted in the above-identified patent application. A listing of documents to be published on the face of any patent granted from this application is submitted herewith on Form PTO-1449. Any other documents or information submitted for consideration by the Examiner are listed in this paper. A copy of each U.S. and foreign patent, or each publication or portion thereof listed or herein identified is submitted herewith.

**CONCISE STATEMENT OF RELEVANCY
(NON-ENGLISH LANGUAGE DOCUMENTS ONLY)**

Japanese laid-open patent application No. 6-290354 discloses a smoke detecting device for a suction unit 7 which constitute a sampling two-type detector dedicated to the detector body and is a cube shape. The device 4 is arranged in a corner of the detector body 1 and connects with the sampling tube 2. The suction unit 7 has a motor-driven centrifugal-type fan and discharges the air at a predetermined flow rate to the exterior of the detector body 1. The suction unit 7 is arranged in the smoke detecting device 4 in a corner of the body 1 on an opposite side. Portions other than the smoke detecting device 4 and suction unit 7 within body 1 form a cavity and define a chamber.

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After air suctioned via the sampling tube 2 passes the smoke detecting device 4 and is discharged into the chamber, it is discharged to the exterior of the detected body with the section unit 7. By using a chamber with a low pressure and suctioning the air, the state of suctioned air within the sampling tube 2 is stabilized.

Japanese laid-open patent application No. JP10-267803 describes a sampling tube-type environment/monitoring sensor which detects the concentration of at least one element among the molecules in air, gas and odor in at least one branch passage. The air of the monitored space is branched off and sectioned to a plurality of branch passages and an air resistance device is formed in at least one branch passage.

Japanese laid-open patent application No. JP11-025374 describes an odor detecting element in the same monitor space as the space in which a smoke detecting element is provided and a proper smoke detecting element is also provided in the monitor space side and a dust removal filter is provided between the smell detecting elements and the smoke detecting elements. The output power from the odor detecting element is input into an alarm board that discriminates whether or not there is a fire based on the output signal from the smoke detecting element and the smell detecting element. The alarm control circuit enables generation of an alarm when the output signal becomes greater than a predetermined value.

STATEMENT REGARDING TRANSLATIONS

English translations of the non-English language documents listed on the appended PTO-1449 form are not available to Applicants' attorney apart from the Statement of Relevancy provided above.

STATEMENT OF TIMELINESS

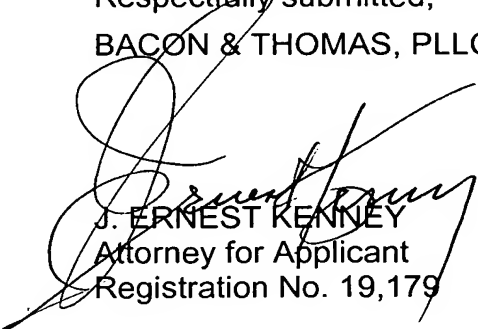
This Information Disclosure Statement is submitted within three months of (i) the filing date of the above-identified U.S. National Patent application, or (ii) the date of entry into the U.S. National Stage of the above-identified International Application, or (iii) the date of entry into the U.S. National Stage of the International Application that has

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been assigned the above-identified U.S. Patent application number, whichever applies.

The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

Respectfully submitted,
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Date: November 20, 2003

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Sheet 1 of 1

B/O Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant	Atty. Docket Number	Serial Number
	YAMA3008/JEK	10/644,821
	Applicant	
	NAOTO YAMANO et al.	
	Filing Date	Group
	August 21, 2003	2856

U.S. Patent Documents

Examiner Initial	Document Number	Date	Patentee/Applicant	Class	Subclass	Filing Date if Appropriate

Foreign Patent Documents

Examiner Initial	Document Number	Publication Date	Country/Agency	Class	Subclass	Translation	
						Yes	No
	JP06-290354	Oct. 1994	Japan				X
	JP10-267803	Oct. 1994	Japan				X
	JP11-025374	Jan. 1999	Japan				X

Other Documents (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

Examiner	Date Considered
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EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.